
Asthma

Definition: Respondents who have been told by a doctor, nurse, or health professional that they had asthma and that they still have asthma.

Prevalence of Asthma

- South Dakota 7.3%
- All participants nationwide 7.7%

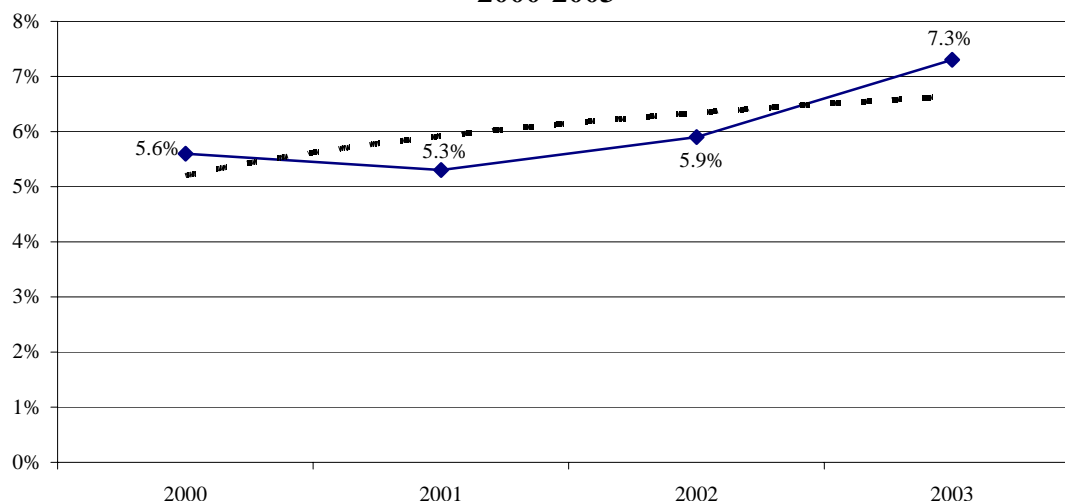
Healthy People 2010 Objective

There was no stated Healthy People 2010 Objective for having asthma.

Trend Analysis

Since this question was first asked in 2000, the percent of respondents who stated they were told they had asthma has increased from 5.6 percent in 2000 to a high of 7.3 percent in 2003.

Figure 48
Percent of Respondents Who Were Told They Have Asthma,
2000-2003



Source: The Behavioral Risk Factor Surveillance System, South Dakota Department of Health, 2000-2003

Demographics

Gender	There is no substantial difference in the prevalence of asthma between males and females overall. However, the one and only demographic that shows a large difference between males and females is the much higher prevalence in American Indian females compared to American Indian males.
Age	The prevalence of asthma does not seem to follow a pattern as age increases.
Race	There is no substantial difference in the prevalence of asthma between American Indians and whites. However, white males do demonstrate a much higher prevalence than American Indian males.
Region	The southeast and west regions both exhibit a very high prevalence of asthma while the central region shows a very low prevalence.

Household Income	The prevalence of asthma generally decreases as household income increases.
Education	As education levels increase the prevalence of asthma decreases.
Employment Status	Those who are unable to work demonstrate a very high prevalence of asthma.
Marital Status	There are no major differences among the various types of marital status.

Table 62
Respondents Who Were Told They Have Asthma, 2003

	Total			Male			Female		
	# Resp.	%	95% CI	# Resp.	%	95% CI	# Resp.	%	95% CI
Total	5,246	7.3	(6.4-8.4)	2,188	7.1	(5.6-8.8)	3,058	7.6	(6.6-8.8)
Age									
18-24	356	11.1	(7.3-16.6)	168	11.9	(6.1-21.9)	188	10.3	(6.5-16.0)
25-34	656	5.3	(3.7-7.4)	270	4.1	(2.2-7.6)	386	6.4	(4.3-9.6)
35-44	983	6.8	(5.2-8.9)	435	7.2	(4.8-10.7)	548	6.4	(4.5-9.1)
45-54	1,023	5.4	(4.1-7.1)	466	4.3	(2.7-6.7)	557	6.6	(4.7-9.3)
55-64	798	7.6	(5.8-9.9)	334	6.0	(3.7-9.5)	464	9.2	(6.7-12.4)
65-74	689	8.9	(6.7-11.9)	272	8.8	(5.6-13.7)	417	9.1	(6.3-12.9)
75+	707	7.7	(5.8-10.2)	233	9.3	(5.8-14.4)	474	6.8	(4.6-9.7)
Race									
White	4,787	7.3	(6.3-8.3)	2,012	7.3	(5.8-9.2)	2,775	7.2	(6.1-8.4)
American Indian	281	7.4	(4.8-11.1)	103	0.8	(0.1-5.5)	178	12.3	(8.0-18.4)
Region									
Southeast	1,286	8.4	(6.5-10.8)	542	8.8	(5.8-13.2)	744	7.9	(5.9-10.5)
Northeast	1,455	6.2	(5.0-7.7)	593	5.1	(3.5-7.3)	862	7.2	(5.4-9.4)
Central	673	4.5	(3.2-6.3)	278	4.9	(3.0-8.2)	395	4.2	(2.7-6.4)
West	1,438	8.2	(6.6-10.0)	618	7.7	(5.4-10.7)	820	8.7	(6.7-11.1)
American Indian Counties	394	8.6	(6.0-12.2)	157	5.1	(2.5-9.9)	237	11.7	(7.7-17.5)
Household Income									
Less than \$15,000	581	9.6	(7.2-12.7)	193	6.8	(3.7-12.3)	388	11.6	(8.4-15.8)
\$15,000-\$19,999	456	7.7	(5.3-11.2)	155	8.6	(4.5-15.8)	301	7.2	(4.6-11.0)
\$20,000-\$24,999	595	7.1	(5.1-9.9)	255	6.0	(3.5-10.2)	340	8.4	(5.5-12.5)
\$25,000-\$34,999	840	9.0	(5.9-13.6)	354	8.2	(3.5-18.4)	486	9.8	(6.7-13.9)
\$35,000-\$49,999	924	6.9	(5.1-9.2)	417	8.7	(5.8-12.9)	507	4.9	(3.3-7.2)
\$50,000-\$74,999	749	6.4	(4.6-8.8)	354	6.5	(4.1-10.2)	395	6.3	(4.1-9.6)
\$75,000+	568	5.4	(3.7-7.9)	316	5.3	(3.2-8.7)	252	5.6	(3.1-9.9)
Education									
Less than High School	553	9.5	(6.5-13.6)	256	9.3	(5.2-16.0)	297	9.7	(6.0-15.3)
High School or G.E.D.	1,758	8.0	(6.6-9.7)	764	6.6	(4.8-9.0)	994	9.5	(7.5-12.0)
Some Post-High School	1,526	6.9	(5.1-9.3)	569	8.1	(4.8-13.3)	957	5.9	(4.4-7.8)
College Graduate	1,391	6.2	(4.9-7.8)	592	5.8	(3.9-8.5)	799	6.6	(5.0-8.7)
Employment Status									
Employed for Wages	2,751	6.3	(5.3-7.5)	1,146	5.5	(4.1-7.4)	1,605	7.2	(5.8-8.9)
Self-employed	659	6.9	(4.9-9.6)	445	6.7	(4.4-10.2)	214	7.3	(4.2-12.3)
Unemployed	112	12.8	(6.3-24.1)	*	*	*	*	*	*
Homemaker	253	8.3	(5.0-13.4)	*	*	*	*	*	*
Retired	1,245	7.0	(5.6-8.7)	452	7.7	(5.4-10.9)	793	6.4	(4.8-8.5)
Unable to Work	123	20.0	(13.1-29.3)	*	*	*	*	*	*
Marital Status									
Married/Unmarried Couple	3,118	6.9	(5.9-8.0)	1,391	6.9	(5.5-8.6)	1,727	6.9	(5.7-8.4)
Divorced/Separated	690	8.8	(6.6-11.7)	274	7.9	(4.9-12.3)	416	9.5	(6.6-13.6)
Widowed	720	7.8	(5.9-10.3)	120	5.9	(2.8-11.8)	600	8.2	(6.1-11.0)
Never Married	713	8.0	(5.1-12.4)	402	7.5	(3.6-15.0)	311	8.7	(5.6-13.2)

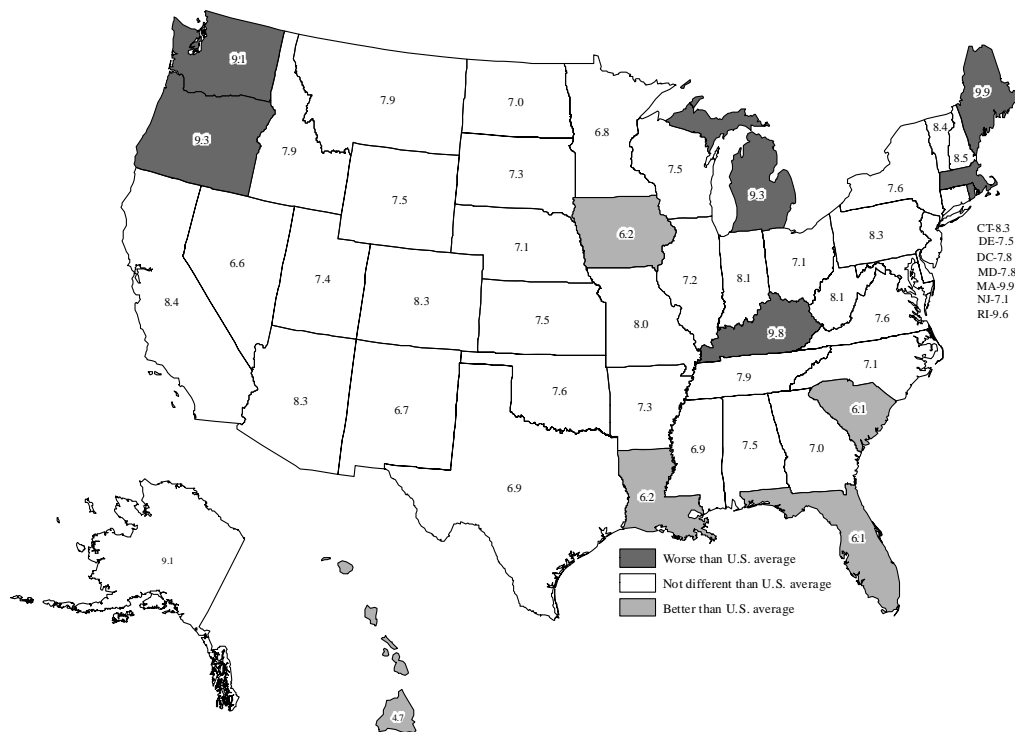
Source: The Behavioral Risk Factor Surveillance System, South Dakota Department of Health, 2003

Note: *Results based on sample sizes less than 100 have been suppressed.

National Statistics

The national percent for respondents who have asthma is 7.7 percent. South Dakota was not significantly different from the United States. Hawaii had the lowest percent of respondents who have asthma with 4.7 percent, while Maine and Massachusetts both had the highest percent of respondents who have asthma with 9.9 percent.

Figure 49
Nationally, Respondents Who Were Told They Have Asthma, 2003



Source: The Behavioral Risk Factor Surveillance System, South Dakota Department of Health, 2003

Further Analysis

Following are data illustrating the percent of those who have asthma for various health behaviors and conditions. For example, 14.4 percent of respondents who stated they have fair or poor health have asthma, while 6.3 percent of respondents who stated they have excellent, very good, or good health status have asthma.

Table 63			
Have Asthma for Selected Health Behaviors and Conditions, 2003			
Health Behavior or Condition	# Respondents	% Asthma	95% CI
Fair or Poor Health Status	794	14.4%	11.6-17.9
Excellent, Very Good, or Good Health Status	4,442	6.3%	5.3-7.4
Obese	1,215	9.5%	7.7-11.7
Overweight	3,122	7.7%	6.4-9.1
Not Overweight	1,911	6.7%	5.4-8.3
No Leisure Time Physical Activity	1,270	7.8%	6.2-9.6
Leisure Time Physical Activity	3,974	7.2%	6.2-8.5
No Moderate Physical Activity	2,837	7.6%	6.3-9.2
Moderate Physical Activity	2,248	7.0%	5.8-8.4
No Vigorous Physical Activity	4,187	7.4%	6.3-8.6
Vigorous Physical Activity	977	7.3%	5.5-9.6

Table 63 (continued)
Have Asthma for Selected Health Behaviors and Conditions, 2003

Health Behavior or Condition	# Respondents	% Asthma	95% CI
Not Doing Anything to Control Weight	1,420	6.1	4.8-7.8
Trying to Lose or Maintain Weight	3,817	7.8	6.7-9.1
Less Than Five Servings of Fruits and Vegetables	4,185	7.4	6.4-8.6
At Least Five Servings of Fruits and Vegetables	1,061	7.1	5.4-9.2
Current Smoker	1,136	7.7	6.0-9.9
Former Smoker	1,446	7.7	6.2-9.4
Never Smoked	2,658	7.0	5.7-8.7
Smokeless Tobacco Use	287	5.1	3.1-8.5
No Smokeless Tobacco Use	4,872	7.4	6.5-8.5
Drank Alcohol in Past 30 Days	3,011	5.8	4.9-6.8
No Alcohol in Past 30 Days	2,221	9.7	7.9-11.8
Binge Drinker	793	5.8	4.3-7.9
Not a Binge Drinker	4,424	7.7	6.6-8.8
Heavy Drinker	197	5.5	3.0-9.8
Not a Heavy Drinker	5,019	7.4	6.4-8.4
Hypertension	1,555	8.5	7.0-10.2
No Hypertension	3,685	7.0	5.9-8.2
High Blood Cholesterol	1,392	8.1	6.6-10.0
No High Blood Cholesterol	2,703	7.5	6.3-8.7
No Mammogram within Past Two Years (40+)	494	7.2	5.0-10.2
Mammogram within Past Two Years (40+)	1,691	7.7	6.4-9.2
Insufficient Cervical Cancer Screening	318	6.7	4.3-10.4
Sufficient Cervical Cancer Screening	1,909	7.2	5.9-8.8
No Health Insurance (18-64)	366	7.4	4.6-11.7
Health Insurance (18-64)	3,370	7.0	5.9-8.3
Employer Based Health Insurance Coverage (18-64)	2,361	6.9	5.5-8.6
Private Plan (18-64)	510	4.9	3.3-7.2
Medicaid or Medical Assistance (18-64)	118	11.4	6.5-19.0
The Military, CHAMPUS, TriCare, or the VA (18-64)	131	7.8	4.2-14.0
The Indian Health Service (18-64)	145	4.4	2.2-8.3
No Flu Shot (65+)	326	3.8	2.2-6.5
Flu Shot (65+)	1,069	9.5	7.7-11.8
No Pneumonia Shot (65+)	501	2.3	1.2-4.6
Pneumonia Shot (65+)	870	11.6	9.3-14.2
Diabetes	452	7.9	5.6-11.1
No Diabetes	4,793	7.3	6.3-8.4
Arthritis	1,774	9.0	7.6-10.7
No Arthritis	3,435	6.7	5.5-8.0
Arthritis - Activities Limited	831	12.9	10.4-15.9
No Arthritis - Activities Limited	4,369	6.5	5.5-7.6
Disability - Activities Limited	1,120	14.7	11.6-18.4
No Disability - Activities Limited	4,089	5.6	4.8-6.6
Disability with Special Equipment Needed	370	14.7	11.0-19.4
No Disability with Special Equipment Needed	4,843	6.9	6.0-8.0
Injured in a Fall (45+)	176	6.5	3.9-10.7
Not Injured in a Fall (45+)	3,053	7.2	6.2-8.3
Sunburn in Past 12 Months	1,997	7.1	5.6-9.0
No Sunburn in Past 12 Months	3,229	7.5	6.5-8.7
Military Veteran	859	6.6	4.9-8.7
Not a Military Veteran	4,341	7.5	6.5-8.7

Source: The Behavioral Risk Factor Surveillance System, South Dakota Department of Health, 2003

In 2001, 6.1 percent of respondents with children in their household reported that at least one of those children had asthma. The percent of households with children who currently have asthma has been on the rise and has reached a high of 8.2 percent in 2003. Figure 50 below displays this.

Figure 50
At Least One Child in Household Who Currently Has Asthma,
2001-2003



Source: The Behavioral Risk Factor Surveillance System, South Dakota Department of Health, 2001-2003